

80113-0126 (D2363)

40. The system of claim 36, wherein the memory further comprises a channel map that generates a program guide based on the data in the program guide database and the channel map database.

41. The system of claim 36, wherein the optimized configuration data generated by the processor includes data that provides an alternative configuration if the delivery channel cannot support the source characteristic of the audio signal.

42. The system of claim 36, further comprising an output interface that couples the processor to an output mechanism for outputting the optimized configuration data to a user.

43. The system of claim 36, wherein the control interface is one selected from the group of a hard wired connection, a wireless link, or a integrally formed connection with the terminal.

44. A method for optimizing audio reproduction, comprising the acts of:
obtaining an audio signal having source characteristic data;
obtaining delivery channel capability data; and
generating optimized configuration data based on the source characteristic data and the delivery channel characteristic data.

45. The method of claim 44, further comprising the act of storing the source characteristic data in a program guide database.

46. The method of claim 44, further comprising the act of storing the delivery channel capability data in a channel map.

80113-0126 (D2363)

47. The method of claim 46, wherein the channel map stores delivery channel capabilities for a plurality of delivery channels.

48. The method of claim 44, wherein at least one of the source characteristic data and the delivery channel capability data is transmitted in an Event Information Table.

49. The method of claim 48, further comprising the act of compiling said at least one of the source characteristic data and the delivery channel capability data from the event information tables corresponding to at least two delivery channels to generate a program guide database.

50. The method of claim 44, wherein the act of generating the optimized configuration data includes the act of generating data that provides an alternative configuration if the delivery channel cannot support the source characteristic of the audio signal.

51. The method of claim 44, further comprising the act of obtaining audio equipment data, wherein the generating act generates the optimized configuration data based on the audio equipment data.

52. The method of claim 51, wherein the act of generating the optimized configuration data includes the act of generating data that provides an alternative configuration if at least one of the delivery channel and the audio equipment cannot support the source characteristic of the audio signal.

53. The method of claim 51, further comprising the act of configuring the audio equipment based on the optimized configuration data.

80113-0126 (D2363)

54. The method of claim 51, further comprising the act of outputting the optimized configuration data.

55. The method of claim 44, further comprising the act of outputting the optimized configuration data.

